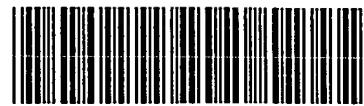OS90
1/05

#12

OIPE

RAW SEQUENCE LISTING   DATE: 12/11/2002
PATENT APPLICATION: US/09/815,341A   TIME: 09:31:31

        Input Set : **N:\Crf4\Refhold\I815341.raw**
        Output Set: **N:\CRF4\12112002\I815341A.raw**

```
 1 <110> APPLICANT: Nancy J. Bump
 2        Lee D. Arnold
 3        Richard W. Dixon
 4        Hans Wolfgang Heoffken
 5        Karen Allen
 6        Cornelia Bellamacina
 7 <120> TITLE OF INVENTION: Method of Identifying Inhibitors of TIE-2
 8 <130> FILE REFERENCE: BBI-6069
 9 <140> CURRENT APPLICATION NUMBER: US/09/815,341A
10 <141> CURRENT FILING DATE: 2001-03-22
11 <150> PRIOR APPLICATION NUMBER: US 60/192,920
12 <151> PRIOR FILING DATE: 2000-03-29
13 <160> NUMBER OF SEQ ID NOS: 2
14 <170> SOFTWARE: FastSEQ for Windows Version 4.0
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 1127
18 <212> TYPE: PRT
19 <213> ORGANISM: Homo sapiens
20 <400> SEQUENCE: 1
21      Met Asp Ser Leu Ala Ser Leu Val Leu Cys Gly Val Ser Leu Leu Leu
22       1           5                   10                  15
23      Ser Gly Thr Val Glu Gly Ala Met Asp Leu Ile Leu Ile Asn Ser Leu
24                  20                  25                  30
25      Pro Leu Val Ser Asp Ala Glu Thr Ser Leu Thr Cys Ile Ala Ser Gly
26                  35                  40                  45
27      Trp Arg Pro His Glu Pro Ile Thr Ile Gly Arg Asp Phe Glu Ala Leu
28          50                  55                  60
29      Met Asn Gln His Gln Asp Pro Leu Glu Val Thr Gln Asp Val Thr Arg
30      65                  70                  75                  80
31      Glu Trp Ala Lys Lys Val Val Trp Lys Arg Glu Lys Ala Ser Lys Ile
32                  85                  90                  95
33      Asn Gly Ala Tyr Phe Cys Glu Gly Arg Val Arg Gly Glu Ala Ile Arg
34                  100                 105                 110
35      Ile Arg Thr Met Lys Met Arg Gln Gln Ala Ser Phe Leu Pro Ala Thr
36                  115                 120                 125
37      Leu Thr Met Thr Val Asp Lys Gly Asp Asn Val Asn Ile Ser Phe Lys
38          130                 135                 140
39      Lys Val Leu Ile Lys Glu Glu Asp Ala Val Ile Tyr Lys Asn Gly Ser
40      145                 150                 155                 160
41      Phe Ile His Ser Val Pro Arg His Glu Val Pro Asp Ile Leu Glu Val
42                  165                 170                 175
43      His Leu Pro His Ala Gln Pro Gln Asp Ala Gly Val Tyr Ser Ala Arg
44                  180                 185                 190
```

RAW SEQUENCE LISTING   DATE: 12/11/2002
PATENT APPLICATION: **US/09/815,341A**   TIME: 09:31:31

Input Set : **N:\Crf4\Refhold\I815341.raw**
Output Set: **N:\CRF4\12112002\I815341A.raw**

```
45   Tyr Ile Gly Gly Asn Leu Phe Thr Ser Ala Phe Thr Arg Leu Ile Val
46           195                 200                 205
47   Arg Arg Cys Glu Ala Gln Lys Trp Gly Pro Glu Cys Asn His Leu Cys
48           210                 215                 220
49   Thr Ala Cys Met Asn Asn Gly Val Cys His Glu Asp Thr Gly Glu Cys
50   225                 230                 235                 240
51   Ile Cys Pro Pro Gly Phe Met Gly Arg Thr Cys Glu Lys Ala Cys Glu
52               245                 250                 255
53   Leu His Thr Phe Gly Arg Thr Cys Lys Glu Arg Cys Ser Gly Gln Glu
54           260                 265                 270
55   Gly Cys Lys Ser Tyr Val Phe Cys Leu Pro Asp Pro Tyr Gly Cys Ser
56           275                 280                 285
57   Cys Ala Thr Gly Trp Lys Gly Leu Gln Cys Asn Glu Ala Cys His Pro
58           290                 295                 300
59   Gly Phe Tyr Gly Pro Asp Cys Lys Leu Arg Cys Ser Cys Asn Asn Gly
60   305                 310                 315                 320
61   Glu Met Cys Asp Arg Phe Gln Gly Cys Leu Cys Ser Pro Gly Trp Gln
62           325                 330                 335
63   Gly Leu Gln Cys Glu Arg Glu Gly Ile Pro Arg Met Thr Pro Lys Ile
64           340                 345                 350
65   Val Asp Leu Pro Asp His Ile Glu Val Asn Ser Gly Lys Phe Asn Pro
66           355                 360                 365
67   Ile Cys Lys Ala Ser Gly Trp Pro Leu Pro Thr Asn Glu Glu Met Thr
68           370                 375                 380
69   Leu Val Lys Pro Asp Gly Thr Val Leu His Pro Lys Asp Phe Asn His
70   385                 390                 395                 400
71   Thr Asp His Phe Ser Val Ala Ile Phe Thr Ile His Arg Ile Leu Pro
72               405                 410                 415
73   Pro Asp Ser Gly Val Trp Val Cys Ser Val Asn Thr Val Ala Gly Met
74           420                 425                 430
75   Val Glu Lys Pro Phe Asn Ile Ser Val Lys Val Leu Pro Lys Pro Leu
76           435                 440                 445
77   Asn Ala Pro Asn Val Ile Asp Thr Gly His Asn Phe Ala Val Ile Asn
78           450                 455                 460
79   Ile Ser Ser Glu Pro Tyr Phe Gly Asp Gly Pro Ile Lys Ser Lys Lys
80   465                 470                 475                 480
81   Leu Leu Tyr Lys Pro Val Asn His Tyr Glu Ala Trp Gln His Ile Gln
82               485                 490                 495
83   Val Thr Asn Glu Ile Val Thr Leu Asn Tyr Leu Glu Pro Arg Thr Glu
84           500                 505                 510
85   Tyr Glu Leu Cys Val Gln Leu Val Arg Arg Gly Glu Gly Gly Glu Gly
86           515                 520                 525
87   His Pro Gly Pro Val Arg Arg Phe Thr Thr Ala Ser Ile Gly Leu Pro
88           530                 535                 540
89   Pro Pro Arg Gly Leu Asn Leu Leu Pro Lys Ser Gln Thr Thr Leu Asn
90   545                 550                 555                 560
91   Leu Thr Trp Gln Pro Ile Phe Pro Ser Ser Glu Asp Asp Phe Tyr Val
92               565                 570                 575
93   Glu Val Glu Arg Arg Ser Val Gln Lys Ser Asp Gln Gln Asn Ile Lys
```

```
94                    580                585                590
95       Val Pro Gly Asn Leu Thr Ser Val Leu Leu Asn Asn Leu His Pro Arg
96             595                600                605
97       Glu Gln Tyr Val Val Arg Ala Arg Val Asn Thr Lys Ala Gln Gly Glu
98          610                615                620
99       Trp Ser Glu Asp Leu Thr Ala Trp Thr Leu Ser Asp Ile Leu Pro Pro
100      625                630                635                640
101       Gln Pro Glu Asn Ile Lys Ile Ser Asn Ile Thr His Ser Ser Ala Val
102                645                650                655
103       Ile Ser Trp Thr Ile Leu Asp Gly Tyr Ser Ile Ser Ser Ile Thr Ile
104             660                665                670
105       Arg Tyr Lys Val Gln Gly Lys Asn Glu Asp Gln His Val Asp Val Lys
106             675                680                685
107       Ile Lys Asn Ala Thr Ile Ile Gln Tyr Gln Leu Lys Gly Leu Glu Pro
108          690                695                700
109       Glu Thr Ala Tyr Gln Val Asp Ile Phe Ala Glu Asn Asn Ile Gly Ser
110      705                710                715                720
111       Ser Asn Pro Ala Phe Ser His Glu Leu Val Thr Leu Pro Glu Ser Gln
112                725                730                735
113       Ala Pro Ala Asp Leu Gly Gly Gly Lys Met Leu Leu Ile Ala Ile Leu
114             740                745                750
115       Gly Ser Ala Gly Met Thr Cys Leu Thr Val Leu Leu Ala Phe Leu Ile
116             755                760                765
117       Ile Leu Gln Leu Lys Arg Ala Asn Val Gln Arg Arg Met Ala Gln Ala
118          770                775                780
119       Phe Gln Asn Val Arg Glu Glu Pro Ala Val Gln Phe Asn Ser Gly Thr
120      785                790                795                800
121       Leu Ala Leu Asn Arg Lys Val Lys Asn Asn Pro Asp Pro Thr Ile Tyr
122                805                810                815
123       Pro Val Leu Asp Trp Asn Asp Ile Lys Phe Gln Asp Val Ile Gly Glu
124             820                825                830
125       Gly Asn Phe Gly Gln Val Leu Lys Ala Arg Ile Lys Lys Asp Gly Leu
126             835                840                845
127       Arg Met Asp Ala Ala Ile Lys Arg Met Lys Glu Tyr Ala Ser Lys Asp
128          850                855                860
129       Asp His Arg Asp Phe Ala Gly Glu Leu Glu Val Leu Cys Lys Leu Gly
130      865                870                875                880
131       His His Pro Asn Ile Ile Asn Leu Leu Gly Ala Cys Glu His Arg Gly
132                885                890                895
133       Tyr Leu Tyr Leu Ala Ile Glu Tyr Ala Pro His Gly Asn Leu Leu Asp
134             900                905                910
135       Phe Leu Arg Lys Ser Arg Val Leu Glu Thr Asp Pro Ala Phe Ala Ile
136             915                920                925
137       Ala Asn Ser Thr Ala Ser Thr Leu Ser Ser Gln Gln Leu Leu His Phe
138          930                935                940
139       Ala Ala Asp Val Ala Arg Gly Met Asp Tyr Leu Ser Gln Lys Gln Phe
140      945                950                955                960
141       Ile His Arg Asp Leu Ala Ala Arg Asn Ile Leu Val Gly Glu Asn Tyr
142                965                970                975
```

RAW SEQUENCE LISTING DATE: 12/11/2002
PATENT APPLICATION: **US/09/815,341A** TIME: 09:31:31

Input Set : **N:\Crf4\Refhold\I815341.raw**
Output Set: **N:\CRF4\12112002\I815341A.raw**

```
143        Val Ala Lys Ile Ala Asp Phe Gly Leu Ser Arg Gly Gln Glu Val Tyr
144                    980                 985                 990
145        Val Lys Lys Thr Met Gly Arg Leu Pro Val Arg Trp Met Ala Ile Glu
146                    995                 1000                1005
147        Ser Leu Asn Tyr Ser Val Tyr Thr Thr Asn Ser Asp Val Trp Ser Tyr
148             1010                1015                1020
149        Gly Val Leu Leu Trp Glu Ile Val Ser Leu Gly Gly Thr Pro Tyr Cys
150        1025                1030                1035                1040
151        Gly Met Thr Cys Ala Glu Leu Tyr Glu Lys Leu Pro Gln Gly Tyr Arg
152                    1045                1050                1055
153        Leu Glu Lys Pro Leu Asn Cys Asp Asp Glu Val Tyr Asp Leu Met Arg
154                    1060                1065                1070
155        Gln Cys Trp Arg Glu Lys Pro Tyr Glu Arg Pro Ser Phe Ala Gln Ile
156                    1075                1080                1085
157        Leu Val Ser Leu Asn Arg Met Leu Glu Glu Arg Lys Thr Tyr Val Asn
158             1090                1095                1100
159        Thr Thr Leu Tyr Glu Lys Phe Thr Tyr Ala Gly Ile Asp Cys Ser Ala
160        1105                1110                1115                1120
161        Glu Glu Ala Ala Phe Ile Gly
162                    1125
164 <210> SEQ ID NO: 2
165 <211> LENGTH: 326
166 <212> TYPE: PRT
167 <213> ORGANISM: Homo sapiens
168 <400> SEQUENCE: 2
169        Ala Leu Asn Arg Lys Val Lys Asn Asn Pro Asp Pro Thr Ile Tyr Pro
170        1               5                   10                  15
171        Val Leu Asp Trp Asn Asp Ile Lys Phe Gln Asp Val Ile Gly Glu Gly
172                    20                  25                  30
173        Asn Phe Gly Gln Val Leu Lys Ala Arg Ile Lys Lys Asp Gly Leu Arg
174                    35                  40                  45
175        Met Asp Ala Ala Ile Lys Arg Met Lys Glu Tyr Ala Ser Lys Asp Asp
176             50                  55                  60
177        His Arg Asp Phe Ala Gly Glu Leu Glu Val Leu Cys Lys Leu Gly His
178        65                  70                  75                  80
179        His Pro Asn Ile Ile Asn Leu Leu Gly Ala Cys Glu His Arg Gly Tyr
180                    85                  90                  95
181        Leu Tyr Leu Ala Ile Glu Tyr Ala Pro His Gly Asn Leu Leu Asp Phe
182                    100                 105                 110
183        Leu Arg Lys Ser Arg Val Leu Glu Thr Asp Pro Ala Phe Ala Ile Ala
184             115                 120                 125
185        Asn Ser Thr Ala Ser Thr Leu Ser Ser Gln Gln Leu Leu His Phe Ala
186             130                 135                 140
187        Ala Asp Val Ala Arg Gly Met Asp Tyr Leu Ser Gln Lys Gln Phe Ile
188        145                 150                 155                 160
189        His Arg Asn Leu Ala Ala Arg Asn Ile Leu Val Gly Glu Asn Tyr Val
190                    165                 170                 175
191        Ala Lys Ile Ala Asp Phe Gly Leu Ser Arg Gly Gln Glu Val Tyr Val
192                    180                 185                 190
```

RAW SEQUENCE LISTING   DATE: 12/11/2002
PATENT APPLICATION: **US/09/815,341A**   TIME: 09:31:31

Input Set : **N:\Crf4\Refhold\I815341.raw**
Output Set: **N:\CRF4\12112002\I815341A.raw**

```
193        Lys Lys Thr Met Gly Arg Leu Pro Val Arg Trp Met Ala Ile Glu Ser
194                195             200             205
195        Leu Asn Tyr Ser Val Tyr Thr Thr Asn Ser Asp Val Trp Ser Tyr Gly
196                210             215             220
197        Val Leu Leu Trp Glu Ile Val Ser Leu Gly Gly Thr Pro Tyr Cys Gly
198        225             230             235             240
199        Met Thr Cys Ala Glu Leu Tyr Glu Lys Leu Pro Gln Gly Tyr Arg Leu
200                245             250             255
201        Glu Lys Pro Leu Asn Cys Asp Asp Glu Val Tyr Asp Leu Met Arg Gln
202                260             265             270
203        Cys Trp Arg Glu Lys Pro Tyr Glu Arg Pro Ser Phe Ala Gln Ile Leu
204                275             280             285
205        Val Ser Leu Asn Arg Met Leu Glu Glu Arg Lys Thr Tyr Val Asn Thr
206                290             295             300
207        Thr Leu Tyr Glu Lys Phe Thr Tyr Ala Gly Ile Asp Cys Ser Ala Glu
208        305             310             315             320
209        Glu Ala Ala Phe Ile Gly
210                325
```

VERIFICATION SUMMARY   DATE: 12/11/2002
PATENT APPLICATION: **US/09/815,341A**   TIME: 09:31:32

Input Set : **N:\Crf4\Refhold\I815341.raw**
Output Set: **N:\CRF4\12112002\I815341A.raw**